

ABSTRACT

A method of plasma doping in which dilution of B₂H₆ is maximized for enhanced safety and stable plasma generation and sustention can be carried 5 out without lowering of doping efficiency and in which the amount of dopant injected can be easily controlled. In particular, a method of plasma doping characterized in that B₂H₆ gas is used as a material containing doping impurity while He is used as a substance of high dissociation energy and that the concentration of B₂H₆ in mixed gas is less than 0.05%.